CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-2/760r/CEMENT/2014-15 Date: 12.02.2015

TEST REPORT ON CEMENT

* CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
*AGENCY	:	**Technical Manager (West),** KRIDL, Bangalore.
*NAME OF THE WORK	:	Providing Street Name Board at Santhoshanagara & Pipeline in Ward No.13, BBMP, Bangalore.
*REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 09.02.2015
SAMPLE ID	:	Cement
SAMPLE RECEIVED ON	:	09.02.2015
PERIOD OF TESTING	:	09.02.2015 to 12.02.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	475 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

AE-13

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃ.ಬ.ಗೋಕೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಮೂ.ಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು

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VISHWANATH. I.A.
Chief Executive Officer

#23/14, 7th Cross, 3rd Stage, 4th Block, Shakthi Ganapathi Nagara, Basaveshwaranagar, Bangalore-79.
Tele Fax : 23223227, Website : www.civiltechconsultants.com
E-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-2/760r/SAND-Gradation/2014-15 : 12.02.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	: Providing Street Name Board at Santhoshanagara & Pipeline in Ward No.13, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 09.02.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Fine Aggregates
Sample Received on	: 09.02.2015
Date of Testing	: 12.02.2015

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	93.40	90-100	90-100	90-100	95-100
2.36	75.40	60-95	75-100	85-100	95-100
1.18	56.40	30-70	55-90	75-100	90-100
600 Micron	31.40	15-34	35-59	60-79	80-100
300 Micron	11.40	5-20	8-30	12-40	15-50
150 Micron	4.90	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

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Remarks : This sample is under Zone-I specific limits.

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Tele Fax : 23223227, Website : www.civiltechconsultants.com
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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-2/760r/AGG/GR/2014-15 : 12.02.2015

TEST REPORT ON DETERMINATION GRADATION OF COARSE AGGREGATES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of Work	: Providing Street Name Board at Santhoshanagara & Pipeline in Ward No.13, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 09.02.2015
Technical Reference	: IS : 2386 Part 1 -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm)
Sample Received on	: 09.02.2015
Date of Testing	: 12.02.2015

Total Wt. of Aggregates in gms= **10000**

Is Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	98.00	95-100	85-100
20	45.00	30-70	0-20
10	20.00	10-35	0-5
4.75	4.80	0-5	-

* Information is furnished by the Customer/Representative

Civil Tech Consultants & Engineers Bangalore

Remarks : This sample is under Graded specific limits.

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Job No.: CTCE/BBMP/W.No.13/KRIDL/MS Angle/2014-15 18.02.2015

TEST REPORT ON STRUCTURAL STEEL

Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.

Agency : **Technical Manager (West),** KRIDL, Bangalore.

Name of work : Providing Street Name Board at Santhoshanagara & Pipeline in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 09.02.2015

Samples ID : Samples Supplied By Agency

Specimen Size : ISA-40X40X6mm (1m Length)

Sl.No	Description	Result
1	Thickness	6.02 mm
2	Width	40.0 mm
3	Weight / Meter	2.96 Kg

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AE-13

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ಪೂರ್ವಪಶ್ಚಿಮ ಉಪವಿಭಾಗ, ಮಾಗಡಿರಸ್ತೆ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಪಾಲಿಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-2/760r//CUBE/2014-15 25.03.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, Dasarahalli Zone, BBMP, Bangalore.
* Agency	: **Technical Manager (West),** KRIDL, Bangalore.
* Name of the work	: Providing Street Name Board at Santhoshanagara & Pipeline in Ward No.13, BBMP, Bangalore.
* Reference	: BBMP/AEE/SSD/DZ/PR/2014-15 Dated: 09.02.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{15}
Compressive Strength as on	: 28th day
Sample Received on	: 25.02.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	25.02.2015	25.03.2015	8.128	352.5	15.67
2	25.02.2015	25.03.2015	8.259	365.6	16.25
3	25.02.2015	25.03.2015	8.362	378.5	16.82

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VISHWANATH. I.A.
Chief Executive Officer

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